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Title: EP0623651B1: Thermoplastic elastomer compound

Country: EP European Patent Office (EPO)

Kind: B1 Patent ¹ (See also: [EP0623651A2](#), [EP0623651A3](#))

Inventor: Schäfer, Helmut;

Assignee: THEKA-flex Produktions- und Handels- GmbH
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Published / Filed: Dec. 29, 1997 / May 3, 1994

Application Number: EP1994000106978

IPC Code: [C08L 53/02](#); [C08L 23/10](#); [C08L 91/00](#); [A61M 1/00](#);

ECLA Code: [C08L23/10+B5](#); [C08L53/02B+B2](#);

Priority Number: May 6, 1993 [DE1993004315003](#)

Attorney, Agent or Firm: Schaefer, Konrad, Dipl.-Phys. et al ;

[Show legal status actions](#)

Legal Status:

Designated Country: AT BE DE ES FR GB NL

Family: [Show 7 known family members](#)

Claims:

[\[Hide claims\]](#):

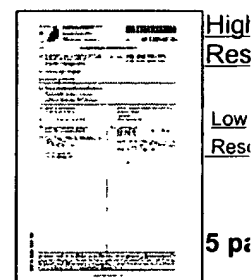
1. A thermoplastic elastomer compound, containing a block copolymer, a polypropylene-based additive, and a plasticiser, characterised in that it contains only the following components:

1. As block copolymer: 1 part SEBS or 1 part SPBS
2. As additive: 0.1 to 1 part polypropylene random copolymer which contains, as comonomer, ethylene or butylene in concentrations of 2% to 8%.
3. As plasticiser: 0.1 to 1 part of an oil containing not more than 10% aromatic constituents and
4. If required, an antistatic having a content by weight of 0.1% to 0.5%,

the production of the elastomer compound being effected to the exclusion of any chemical crosslinking.

2. A compound according to [claim 1](#), characterised in that the plasticiser contained therein is an oil having naphthenic constituents in a range from 25% to 45% and paraffinic constituents in a range from 55% to 75% and is free of aromatic constituents.

3. A compound according to [claim 2](#), characterised in that it



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contains as plasticiser paraffinum perliquidum to DAB 10.

4. Medical articles for the following areas: infusion, transfusion, dialysis, enteral nutrition, laparoscopy and blood sampling, characterised in that they can be produced by extrusion or injection moulding from a compound according to claims 2 to 3.

5. Medical articles according to claim 4, characterised in that flexible tubes or flexible tube systems are involved.

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Other Abstract
Info:

CHEMABS 122(20)241768Z DERABS C94-343295



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Thermoplastic elastomer for prodn. of transparent medical devices - comprises styrene/ethylene/butylene/styrene or styrene/propylene/butylene/styrene block copolymer, propylene random copolymer and opt. plasticiser

Assignee: **THEKA-FLEX PRODN & HANDELS GMBH** Non-standard company
 Inventor: **SCHAEFER H;**

Accession / Update: **1994-343295 / 199822**

IPC Code: **C08L 53/00 ; C08L 53/02 ; A61M 1/00 ; A61M 39/00 ; C08K 5/01 ; C08L 23/10 ; C08L 23/14 ; C08L 91/00 ;**

Derwent Classes: **A17; P34;**

Manual Codes: **A04-C04**(Styrene with other monomers) , **A04-G01E**(Uses) , **A04-G06A**(Production, compositions) , **A08-P01**(General) , **A09-A02**(Optical properties) , **A12-V03**(Equipment, splints, sutures)

Derwent Abstract**DERWENT
RECORD**

(EP0623651A) A thermoplastic elastomer compsn. contains a block copolymer, a polypropylene-based additive and opt. also a plasticiser, where (a) the block copolymer is styrene/ethylene/butylene/styrene (SEBS) or styrene/propylene/butylene/styrene (SPBS); (b) the additive is a propylene random copolymer with 2-8% ethylene or butylene as comonomer; (c) the plasticiser is an oil with at most 10% aromatics content; and (d) the compsn. contains (per 1 pt. SEBS or SPBS) 0.1-1 pt. propylene random copolymer and 0.1-1 pt. plasticiser. **PREFERRED** - The plasticiser oil has 25-45% naphthenic fraction and 55-75% paraffinic fraction and is free of aromatics, esp. being Paraffium perliquidum DAB 10. 0.1-0.5 wt.% of an antistat can also be present.

Use - Used for infusion, transfusion, dialysis, enteral nutrition, laparoscopy or blood collection devices extruded (pref. as tubes) or injection moulded from the compsn. (claimed).

ADVANTAGE, The compsn. serves as a replacement for PVC and is easily processed to give transparent prods. of high elasticity.

Abstract info: **EP0623651A:** Dwg.0/0 , **EP0623651B:** Dwg.0/0

Family:

Patent	Pub. Date	DW Update	Pages	Language	IPC Code
EP0623651A2 *	Nov. 09, 1994	199443	4	German	C08L 53/02
Des. States: (R) AT BE DE ES FR GB NL					
Local appls.: EP1994000106978 ApplDate:1994-05-03 (94EP-0106978)					
.....					
ES2113012T3 =	April 16, 1998	199822		Spanish	C08L 53/02
Local appls.: Based on EP00623651 (EP 623651)					
EP1994000106978 ApplDate:1994-05-03 (94EP-0106978)					
.....					
DE59404856G =	Feb. 05, 1998	199811		German	C08L 53/02
Local appls.: Based on EP00623651 (EP 623651)					
EP1994000106978 ApplDate:1994-05-03 (94EP-0106978)					
DE1994000504856 ApplDate:1994-05-03 (94DE-0504856)					
.....					
EP0623651B1 =	Dec. 20, 1997	199805	5	German	C08L 53/02

EP0623651A1 - Dec. 29, 1997 199603 2 German C08L 53/02

Des. States: (R) AT BE DE ES FR GB NL

Local appls.: EP1994000106978 ApplDate:1994-05-03 (94EP-0106978)

EP0623651A3 = Jan. 18, 1995 199538 2 English C08L 53/02

Local appls.:

DE4315003A1 = Nov. 10, 1994 199444 German C08L 53/00

Local appls.: DE1993004315003 ApplDate:1993-05-06 (93DE-4315003)

Priority Number:

Application Number	Application Date	Original Title
DE1993004315003	May 06, 1993	THERMOPLASTISCHES ELASTOMERCOMPOUND

Extended Polymer Index:

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Polymer Multipunch Codes:

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Polymer Keyterm Serial Number:

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Citations:

DE3337997 : KUNSTHARZZUSAMMENSETZUNG
 EP0334981 : DISCHARGE ELECTRODE MATERIAL
 EP0452089 : THERMOPLASTIC ELASTOMER COMPOSITION
 JP63057661 : HENSOKUSOCHI
 US Y865776
 - 1.Jnl.Ref

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1994-156352	C		
1 item found			

Title Terms:

THERMOPLASTIC ELASTOMER PRODUCE TRANSPARENT MEDICAL DEVICE
 COMPRISE STYRENE ETHYLENE BUTYLENE STYRENE STYRENE PROPYLENE
 BUTYLENE STYRENE BLOCK COPOLYMER PROPYLENE RANDOM COPOLYMER
 OPTION PLASTICISED

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